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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,927	11/24/2003	Teruaki Tanaka	9369-95US (T37-161834M/AI	5232
570	7590 12/06/2005		EXAMINER	
AKIN GUMP STRAUSS HAUER & FELD L.L.P.			COLLINS, TIMOTHY D	
ONE COMN	MERCE SQUARE			
2005 MARKET STREET, SUITE 2200		ART UNIT	PAPER NUMBER	
PHILADELPHIA PA 19103			2642	

DATE MAILED: 12/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/720,927	TANAKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Timothy D. Collins	3643				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wit	h the correspondence addr	ress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of the provision o	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONT , cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this com ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 A	pril 2004.					
	action is non-final.	•				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	•					
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the applicat	ion					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.	· _ · · · _ · · · · · · · · · · · · · ·					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement					
	, ologion roquiloment					
Application Papers						
9)☐ The specification is objected to by the Examine						
10) \boxtimes The drawing(s) filed on <u>12 April 2004</u> is/are: a) \square accepted or b) \boxtimes objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is objected to. See 37 CFR	R 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached	Office Action or form PTC)-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 		119(a)-(d) or (f).				
3. Copies of the certified copies of the prio	·	•	tage			
application from the International Burea	u (PCT Rule 17.2(a)).		_			
* See the attached detailed Office action for a list	of the certified copies not i	eceived.				
Attachment(s)	. 🗖					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date				
 Notice of Draisperson's Patent Drawing Review (PTO-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/24/03. 	_	formal Patent Application (PTO-	152)			

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DETAILED ACTION

Drawings

1. Figure 6 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance. Note that the previous drawings filed with the case had the Prior Art label, however it is missing from the newer drawings filed 4/12/04.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by USPN 4887214 to Takats et al. (hereinafter called 214).
 - a. Re claim 1, 214 discloses a first actuator (A) and a second actuator (B) for driving a wing (labeled "surface", for flight control surface). Also 214 discloses a

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drive signal generator at least in the FCC as stated in the abstract and elsewhere for generating a signal for operating the first or second actuator. Also 214 discloses a first controller unit (called "primary controller") including a first drive controller part (Upch1A) and a follower signal generator part (Upch1B) as seen in figure 4 at least. Also disclosed is a second controller unit (secondary controller) including a second drive controller (Upch2B) as seen in figure 4 at least. Also a control invalidating part (the line between Upch2B and number 72 which is the bypass valve at least). The arrangement of the invalidating is also seen in column 10 at lines 6-59 and more specifically in lines 29-46. This is where the device is disclosed as being able to "vote out" the sensors and signals which are not functioning and continue to control the surface under extreme failure cases.

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- b. Re claim 2, 214 discloses a detector part for detecting as to whether or not the second drive controller part is able to operate as seen in number 46 at least in figure 4.
- 4. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by JP 64-041498 to Teijin Seiki Co Ltd (hereinafter called 498).
 - c. Re claims 1 and 2, 498 discloses actuators 47a and 47b as well as a drive signal generator (inherently), and first and second controllers (49a and 49b) with first controller part (line from controller 49a to 36a) and follower part (line from 49a to 46Ba) and control invalidating part (46B and associated parts).

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Conclusion

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5. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. The following art discloses control systems with redundant

actuators.

d. USPN 5806805

USPN 5791596 e.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Timothy D. Collins whose telephone number is 571-272-

6886. The examiner can normally be reached on M-F, 7:00-3:00, with every other Fri.

off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter M. Poon can be reached on 571-272-6891. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Timothy D. Collins

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